Navajo Abandoned Uranium Mine

Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

Mine Name: **Rock Door No. 1**Mine ID: **223**

Navajo AUM North Central Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

20074.063.039.0020

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Part I	Site Identification, Location and Status				
Site Names and ID numbers as applicable					
Mine ID:	223				
Map ID:	NC24				
CERCLIS:	NNN000909253				
Navajo Abandoned Mine Land Reclamation Program: NA-0237					
Local name / Aliases: Rock Door Mine					
Chapter and local area: Oljato					
County: San	Juan	State:	UT		
Lat/Long:	37.0146880063 N / -110.214968089 W				
Nearby road	and highway:	Oljeto Road	Local Post Office:	Oljato, AZ	
Surface Land Status: check one or more and provide ownership and contact information below					
Tribal Trust : Private Bureau of La State			Public lands Tribal Fee Land Allotment Fee land		
Subsurface Mineral Rights:					
No information on subsurface mineral rights ownership was found in the EPA/AUM Database					
Claim and on	erator inform:	ation:			

Historical documents identified the operator of the mine in 1952 as Harry A. Binale, from 1952 to 1953 as Harry Goulding, and from 1953 to 1954 as Dean Nicholson. No additional historical ownership / lease information was identified in the EPA / AUM database.

Number of residential structures within 200 feet of mine: None

Part II Summary of Radiological Readings

Mine ID: 223

Highest gamma radiation measurement: 218,136 counts per minute (cpm)

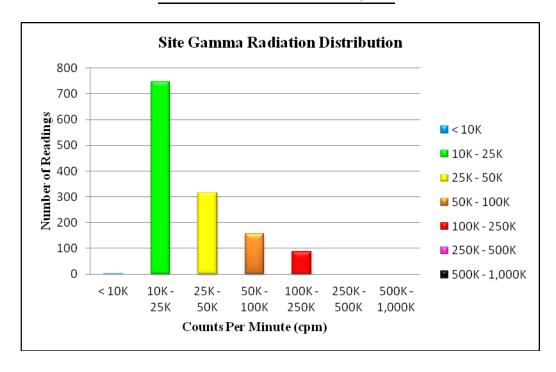
Background Average: 12,335 cpm **Two Times Background:** 24,670 cpm

Describe any other radiological measurements:

A total of 1,310 gamma radiation measurements were collected from the mine site, ranging from 9,442 cpm to 218,136 cpm. Maximum levels of approximately 215,000 cpm were found in the bench area. The measurements are represented in Figures 1 and 2.

Distribution Chart and Statistics:

Site Gamma Radiation Statistics				
Number of Readings	1,310			
Minimum (cpm)	9,442			
Maximum (cpm)	218,136			
Mean (cpm)	35,157			
Median (cpm)	21,125			
Standard Deviation	35,257			



Part III Status of Reclamation and Mine Waste

Mine ID: 223

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: Yes Waste Pile onsite: Yes

NAMLRP Project Number: NA-0237

NAMLRP Mine features: 3 Portals

The following information was obtained from field observations collected during the 2011 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

Observed reclamation work and status:

Adits:

None Observed

Waste Piles:

Possible waste rock over the cliff edge, fine material

Pits:

None Observed

Shafts:

None Observed

Other Debris and Mine Features:

None Observed

Part IV Site Observations and Environs

Observed Residential Structures (number and human habitation status of structures at the following distances from the mine site):

0 to 200 feet: None Observed

200 feet to 0.25 mile: 0.25 mi N - Residential compound, with multiple structures; 0.25 mi E - Residential compound, with multiple structures

Observed Public or Commercial Structures (schools, clinics, Chapter Houses, places of business and any other structures used by members of the community at the following distances from the mine site):

0 to 200 feet: None observed

200 feet to 0.25 mile: 500 ft S - Billboard

Levels measured around the perimeter(s) of the identified structure(s):

Background Levels

Observed Water Sources (number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine site):

0 to 0.25 miles: None Observed

0.25 miles to 4 miles: 0.5 mi S - Well Filling Station (Gouldings); 0.5 mi E - Reservoir (Gouldings); 3.5 mi W - Water Tank (224)

Sensitive Environments (all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation):

None observed

Known Site History (information from interviews with Chapter officials and residents and database review, includes: mine ownership, type of mining operation, period of operation, known amount of production, and any other information provided):

The Rock Door No. 1 mine claim consists of an area of 21,708 m². The mine was identified as being operational from 1953 to 1954. While operational, the mine had a total reported production volume of 25 tons. No additional historical ownership / lease information was identified in the EPA / AUM database.

Part V Response Action Summary

Summary of Evaluation Factors:

Accessibility:

Was the mine easily accessible to potential human activity?

Yes

Radiological Measurements:

Were any gamma radiation measurements collected at the mine greater than two times the site-specific background levels?

Yes

Waste Piles:

Were any unreclaimed waste piles observed at the mine with gamma radiation measurements greater than two times the site-specific background levels? Yes

Structures:

Were any structures observed within 200 feet of the mine? $\ensuremath{\mathrm{No}}$

Potential Drinking Water Sources:

Were any potential drinking water sources observed within 4 miles of the mine? $\ensuremath{\mathrm{Yes}}$

Reclamation:

Was the mine reported to be previously reclaimed, or did the mine appear to be reclaimed?

Yes

Part VI Photos

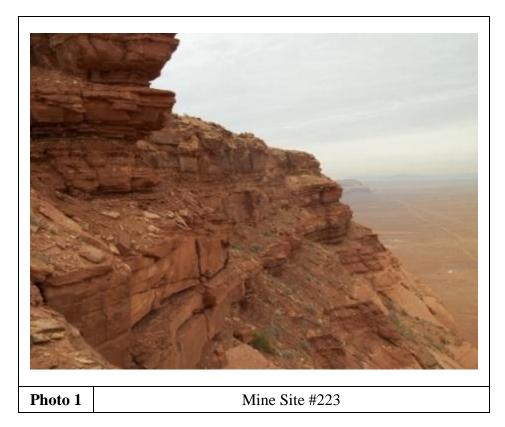


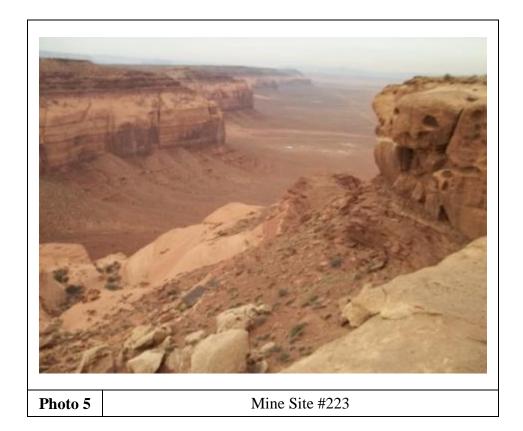




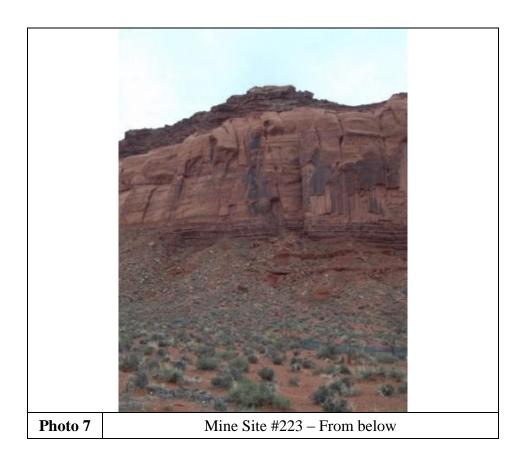
Photo 3 Mine Site #223 – Gouldings reservoir below mine



Photo 4 Mine Site #223 – Structures below mine



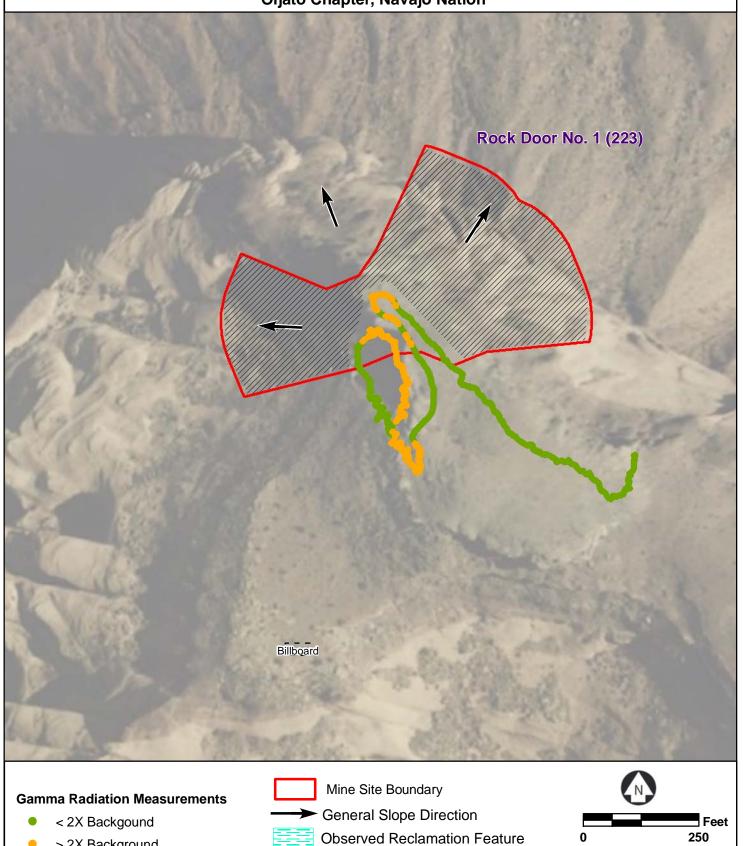




Part VII Contact Reports and Information

Name:	Eugene Esplain		
Title or official role (if any):	Navajo EPA Superfund Program		
Telephone number:	(928) 871-7331		
Address:	PO Box 2946, Window Rock, AZ 86515		
Information provided:	Lead Regulatory Agency		
Name:			
Title or official role (if any):			
Telephone number:			
Address:			
Information provided:			
Name:			
Title or official role (if any):			
Telephone number:			
Address:			
Information provided:			

Figure 1 - Gamma Radiation Measurements, Above Two Times Background Rock Door No. 1 (223) Oljato Chapter, Navajo Nation



> 2X Background

Measured as counts per minute (cpm)

Average background 12,335 cpm

Observed Waste Rock

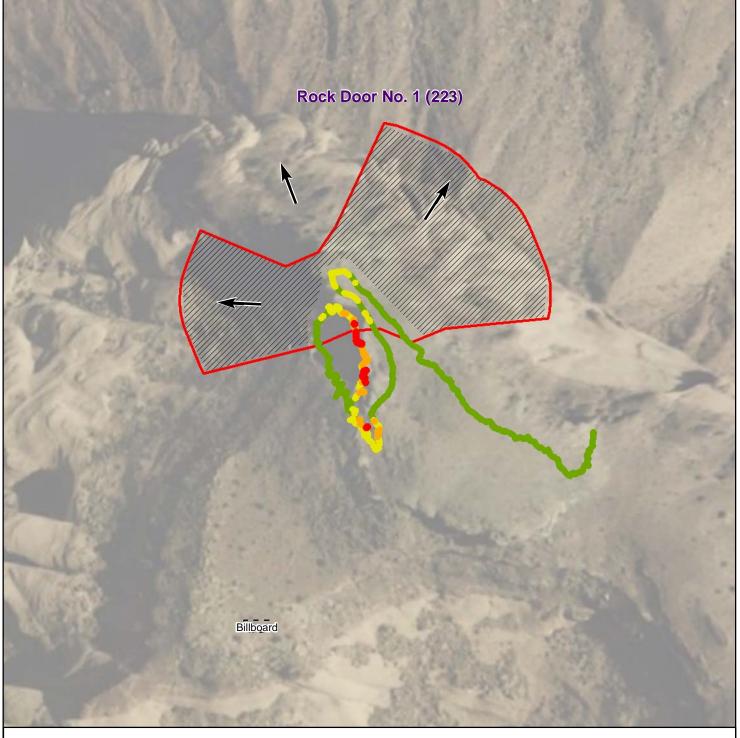
Observed Structure

Observed Adit





Figure 2 - Gamma Radiation Measurements Rock Door No. 1 (223) Oljato Chapter, Navajo Nation



Gamma Radiation Measurements

- 0 10,000 cpm
- 10,000 25,000 cpm
- 25,000 50,000 cpm
- 50,000 100,000 cpm
- 100,000 250,000 cpm
- 250,000 500,000 cpm
- 500,000 1,000,000 cpm

 Average background 12,335 cpm

Mine Site Boundary

General Slope Direction

Observed Reclamation Feature

Observed Waste Rock
Observed Structure

Observed Adit

Measured as counts per minute (cpm)

